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Sept. 1995

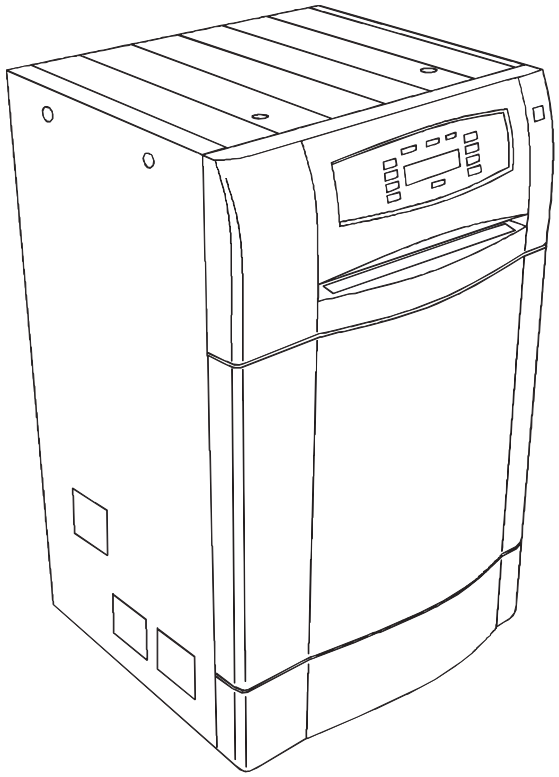
SUPPLEMENT to the INSTALLATION INSTRUCTIONS

for the

KODAK MULTILOADER 700

to include the

KODAK MULTILOADER 700 PLUS



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Note

This supplement contains only information describing the differences between the KODAK MULTILOADER 700 and the KODAK MULTILOADER 700 PLUS. Information common for both units is described in the INSTALLATION INSTRUCTIONS SP 3053.

MAINS PLUG AND EQUIPOTENTIAL EQUILIZATION DEVICE

Note

This information is for installations in Europe only!

According to European safety regulations for medical devices, the following conditions must be fulfilled: If the unit is operated within a distance of 1.5 m from the patient , the KODAK Multiloader 700 Plus must be properly connected to the mains with a CEE plug, **type 248 16-6h/220-240V~, 2P + Ground with VDE approval**. In that case it must also be connected to the equipotential equalization device (E^2D). E^2D with cable and the CEE plug must be provided by the customer. The purpose of the equipotential equalization device is to ensure that all medical devices are connected to the same ground potential.
If, on installation, the KODAK SERVICE PROVIDER connected the KODAK Multiloader 700 Plus to the equipotential busbar using the equipotential bonding plug, this connection may not be interrupted, i. e. the customer is not allowed to pull off the cable coming from the equipotential busbar (see illustration below).

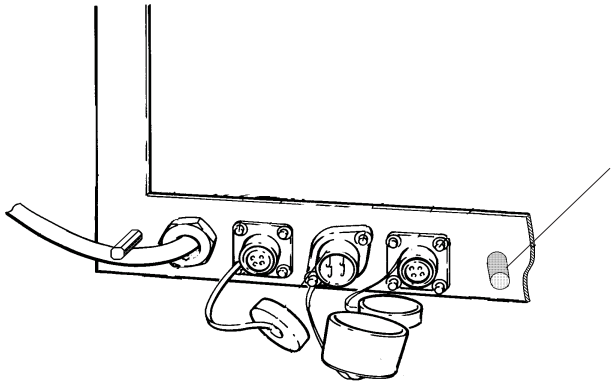

figure 1-1

ELECTRICAL SAFETY

After installation the ML700 Plus must be checked for electrical safety according to your local and national safety regulations.

JUMPER SETTING PCB A0

Up to SN 3372 (50 Hz) and SN 7273 (60 Hz)

For the ML700 Plus a single LANGUAGE EPROM is used. It contains all languages. This EPROM does not fit into the socket of U35 on PCB A0. Therefore a small ADAPTER is used in between the socket U35 and the new LANGUAGE EPROM. The JUMPER on this ADAPTER PCB has to be out. At ML700 with mod 24 the very same ADAPTER is used. However a smaller LANGUAGE EPROM is used too and a different JUMPER SETTING is needed.

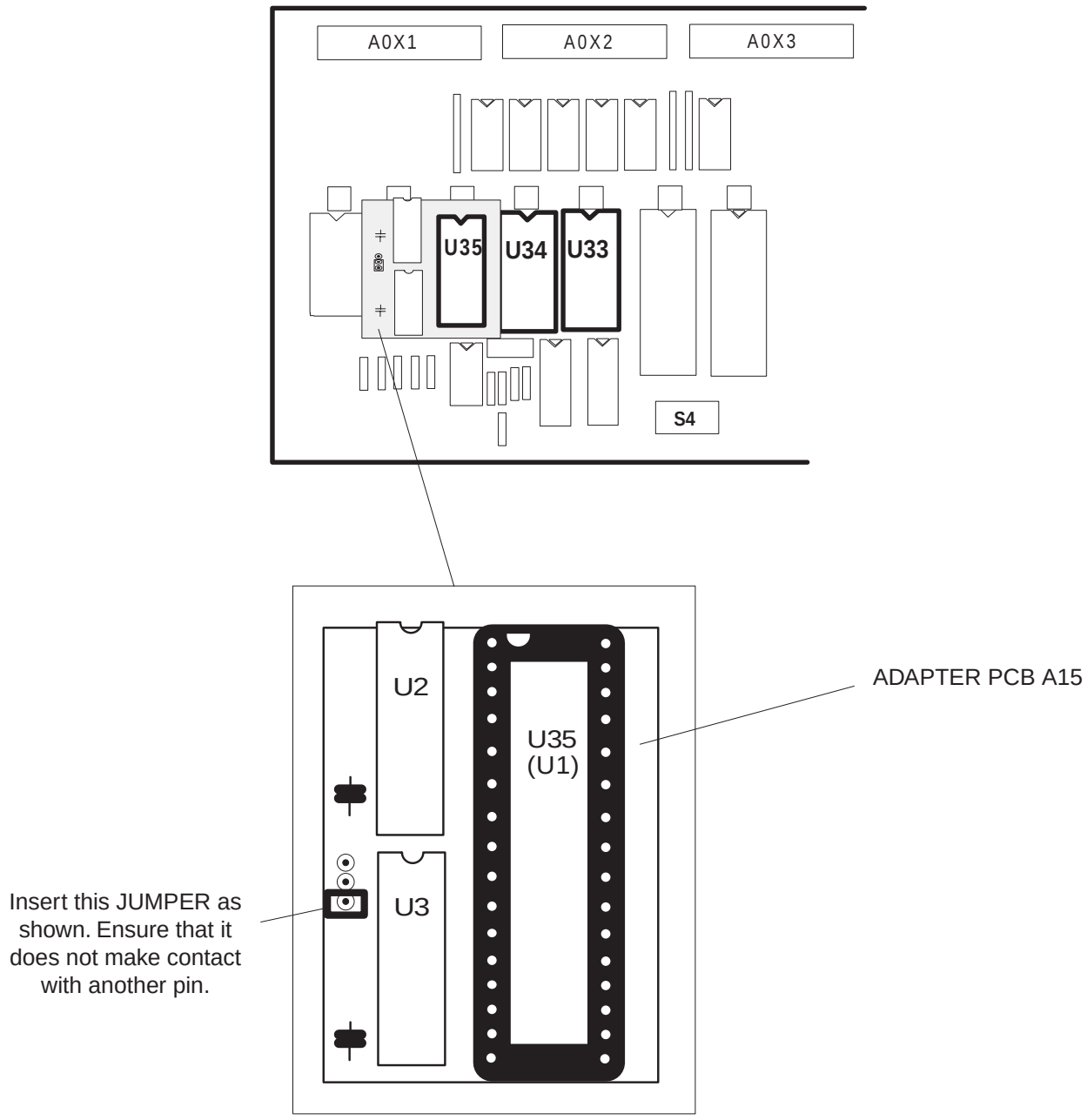

figure 1-2

From SN 3373 (50 Hz) and SN 7274 (60 Hz)

The ADAPTER PCB A15 is no longer used. The LANGUAGE EPROM U35 is inserted into the SOCKET U35 on PCB A0.

The JUMPER A0X11 must be set as shown in the figure below.

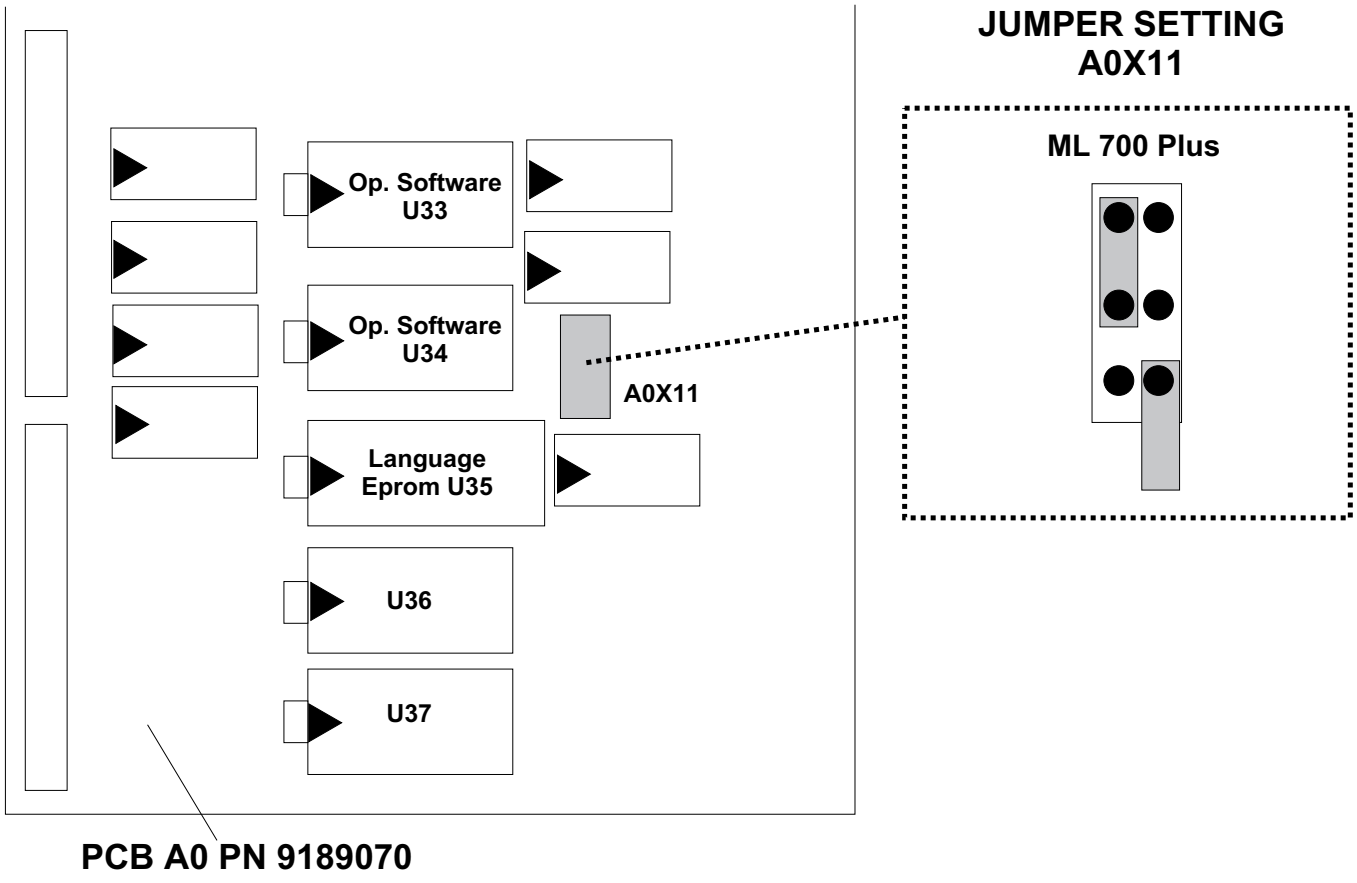

figure 1-3

JUMPER SETTING PCB A9 Plus

JUMPER SETTING A9X14

A9X14	PROCESSOR SPEED	PROCESSOR DELAY TIME
1-2	38.0 - 83 cm/min 15 - 32.6 in/min	25.4 sec
3-4	83.1-132.5 cm/min 32.7 - 52.1 in/min	6.2 sec
5-6	> 132.5 cm/min > 52.1 in/min	0.23 sec

JUMPER SETTING A9X15

SIDE-BY-SIDE	TUNNEL
A9X15 1-3	A9X15 3-5
A9X15 2-4	A9X15 4-6

Note

For details see figure 1-4 and 1-5.

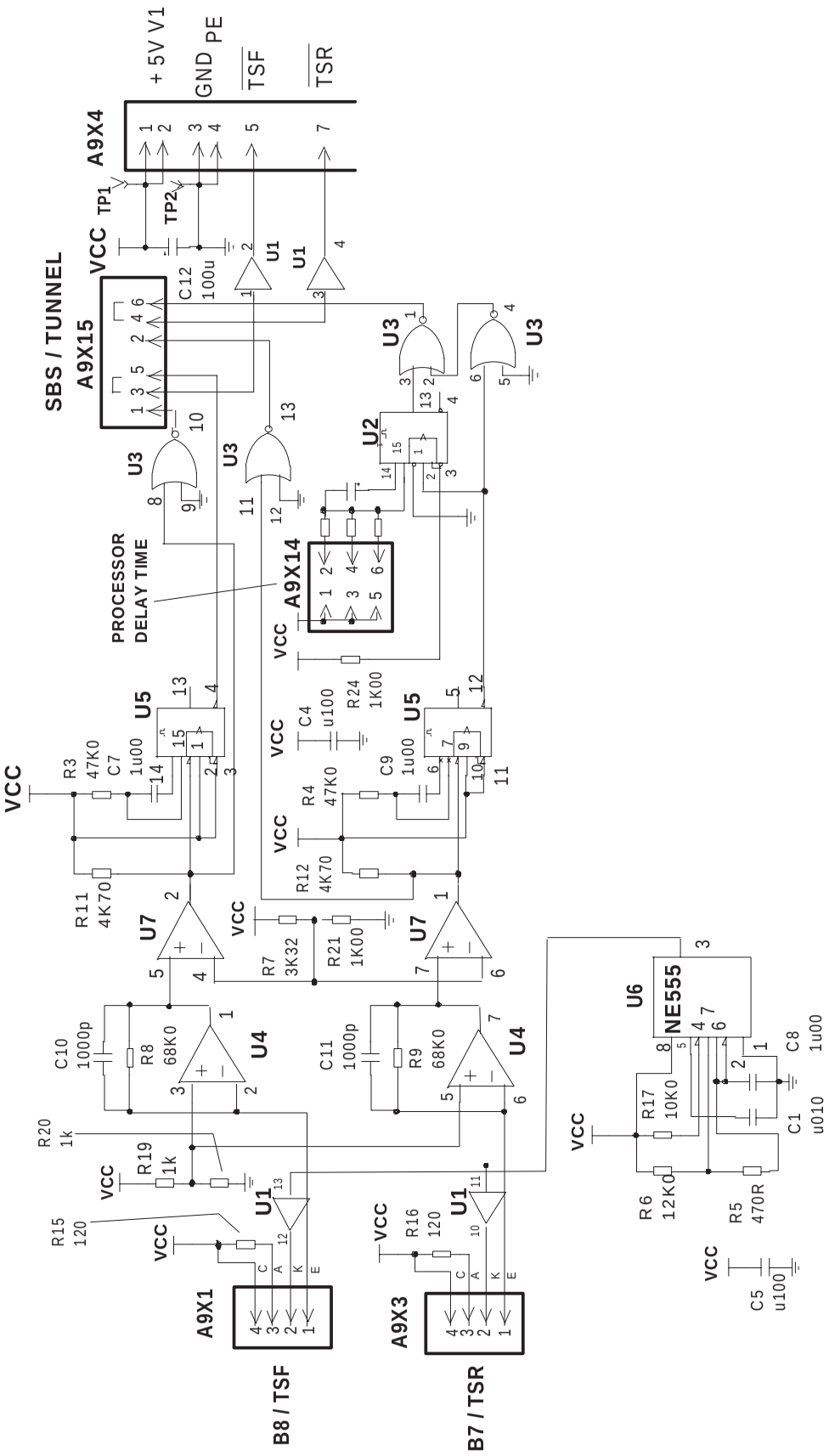
+ 5V V1
GND PE
TSF
TSR
A9X4
TP1
TP2
VCC
C12
100u
U1
SBS / TUNNEL
A9X15
U3
U2
PROCESSOR
DELAY TIME
A9X14
R24
1K00
C4
u100
U5
R3
47K0
C7
1u00
C9
R4
47K0
R12
4K70
R11
4K70
U7
R7
3K32
R21
1K00
C10
1000p
R8
68K0
C11
R9
U4
R20
1k
R19
R15
120
R16
A9X1
A9X3
B8 / TSF
B7 / TSR
U6
NE555
R17
10K0
R6
12K0
R5
470R
C8
C1
C5

figure 1-4

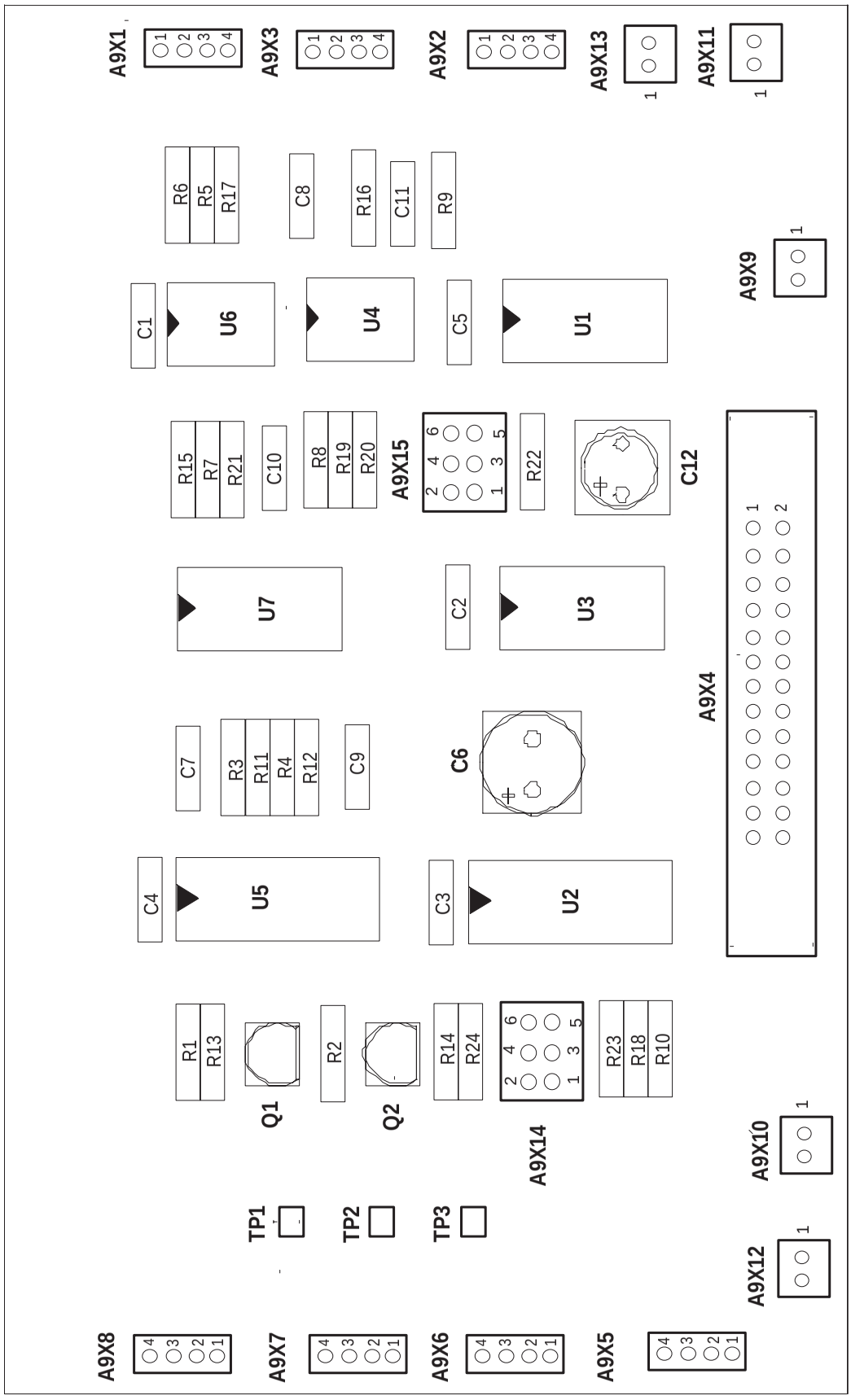
A9X1
A9X3
A9X2
A9X13
A9X11
A9X9
A9X15
A9X4
A9X14
A9X10
A9X12
A9X8
A9X7
A9X6
A9X5
U1
U2
U3
U4
U5
U6
U7
Q1
Q2
C12
C6
TP1
TP2
TP3

figure 1-5

HUMIDIFIER

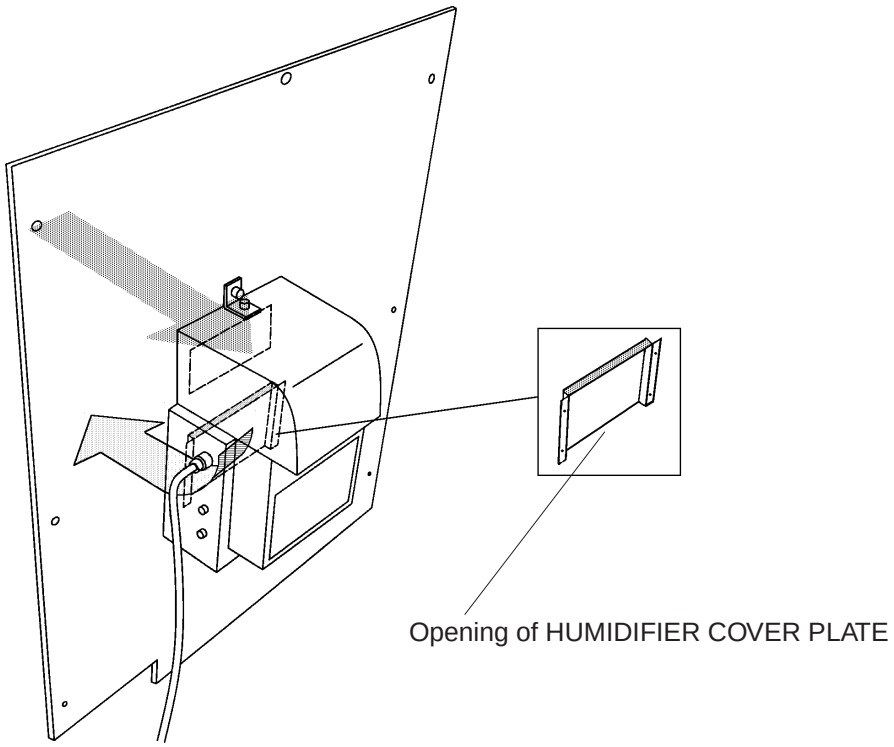

figure 1-6

1. Install the HUMIDIFIER COVER PLATE with the OPENING down. If this PLATE is installed with the OPENING up the efficiency of the humidifier will be decreased.

2. Adjust the voltage between TP2 (Gnd) and TP5 (plus) on PCB A16 to 4.0 volts (this is equal to 40% relative humidity).
For details see the WIRING DIAGRAM on the next page.

NOTE

In contrast to the ML700 the DOOR FAN of the ML700 Plus is not controlled by PCB A16. The DOOR FAN of the ML700 Plus is running as long as the ML700 Plus is switched on.

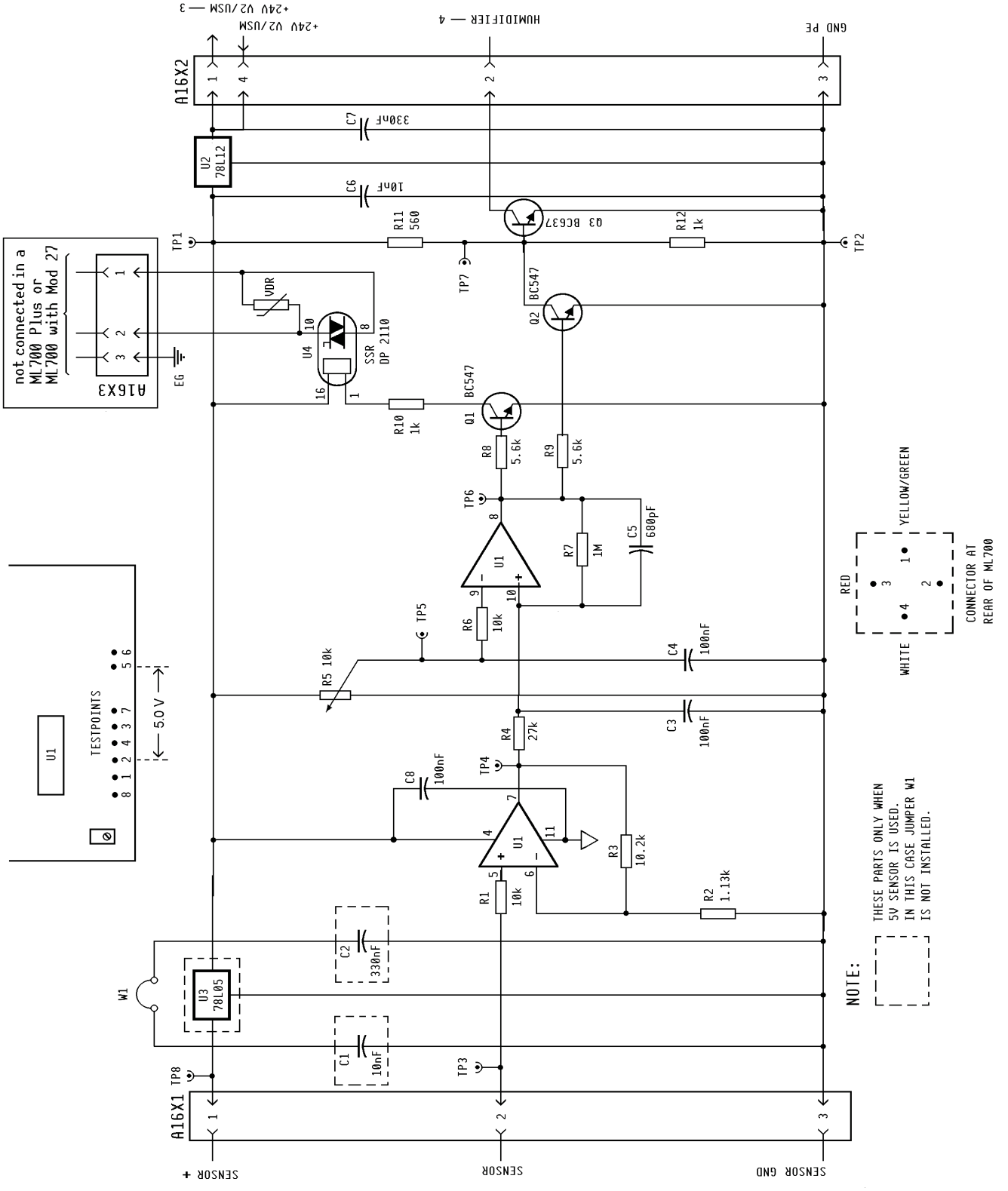
+24V V2/USM — 3
+24V V2/USM
HUMIDIFIER — 4
GND PE
A16X2
U2 78L12
C7 330nF
C6 10nF
R11 560
Q3 BC637
R12 1k
TP1
TP7
TP2
not connected in a ML700 Plus or ML700 with Mod 27
A16X3
VDR
EG
U4 SSR OP 2110
Q2 BC547
Q1 BC547
R10 1k
R8 5.6k
R9 5.6k
TP6
U1
R7 1M
C5 680pF
TP5
R6 10k
R5 10k
C4 100nF
C3 100nF
R4 27k
TP4
C8 100nF
R3 10.2k
R1 10k
R2 1.13k
TESTPOINTS
5.0 V
RED
YELLOW/GREEN
WHITE
CONNECTOR AT REAR OF ML700
NOTE:
THESE PARTS ONLY WHEN 5V SENSOR IS USED. IN THIS CASE JUMPER W1 IS NOT INSTALLED.
W1
U3 78L05
C2 330nF
C1 10nF
TP8
TP3
A16X1
SENSOR +
SENSOR
SENSOR GND

figure 1-7

INSTALLATIONS OUTSIDE US and CANADA

Note

Due to safety regulations, the selected line voltage must be shown on the ML700 Plus DATA PLATE and in the OPERATING INSTRUCTIONS.

1. Take the selfadhesive LABEL with the selected line voltage and stick it into the indicated field on the DATA PLATE.

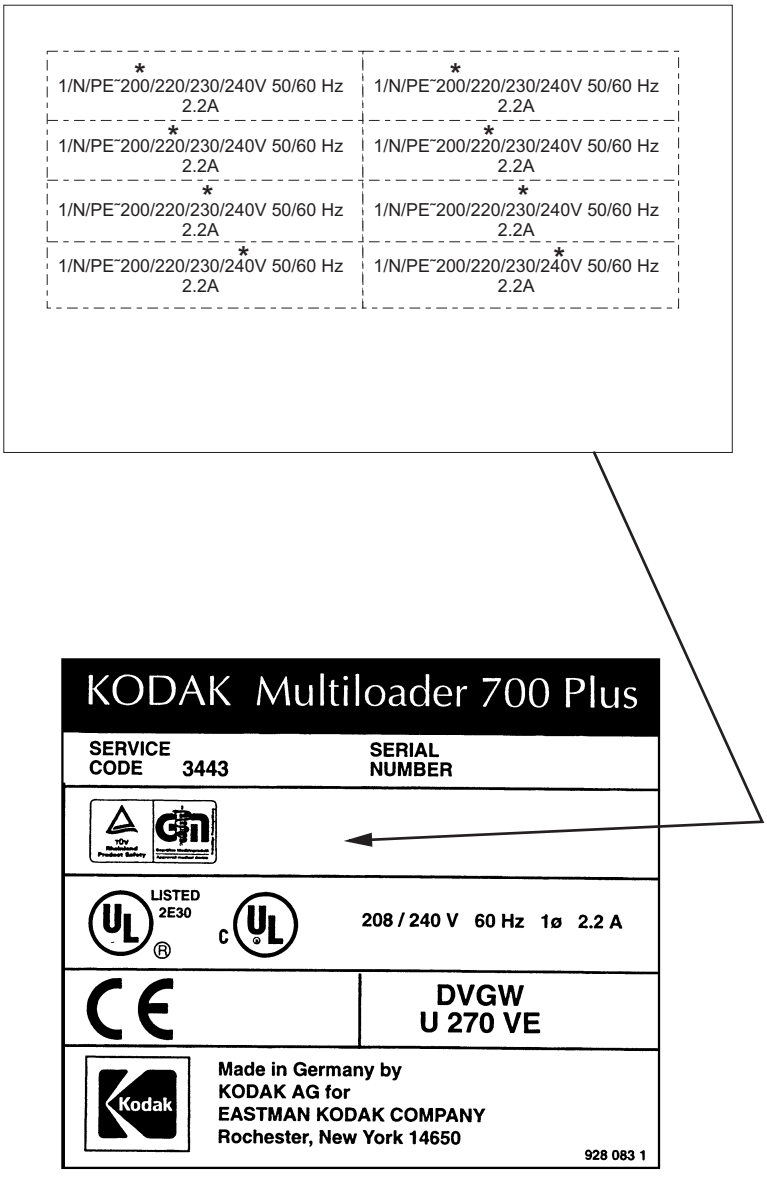

figure 1-8

2. Take the second LABEL with the selected line voltage and stick it into the provided space in section SPECIFICATIONS of the OPERATING INSTRUCTIONS.

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